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PROVISIONAL SPECIFICATION.

Improvements in Gum Elastic and Flexible Catheters and Bougies.

I, MARCUS ALLEN, of 134 Islington, Liverpool, in the County of Lancaster, Medical Man (retired); do hereby declare the nature of this invention to be as follows:—

5 It is a matter of common knowledge to members of the medical profession that gum elastic and flexible catheters and bougies are liable, when in use, to break off at the end, and that the part which thus becomes separated is likely to form the nucleus of a calculus or stone in the bladder, possibly requiring the operation of lithotomy.

10 The object of this invention is to produce a gum elastic or a flexible instrument which may be left without any risk in the patient's urethra, and which will be more durable than the ordinary gum elastic or the flexible instrument, while possessing the safety from breakage of the metal instrument.

15 According to this invention the catheter or bougie is made of gum elastic or of flexible material with a metallic core. The material used is moulded or otherwise formed or fashioned around or upon the core, which is preferably made of metal wire with a bulb or projection at one end or at both ends. The instruments may thus be reversible in character, and the ends may vary in shape and in size.

20 In both gum elastic and flexible instruments, if only one end of the instrument is used the metal at the other end may be fashioned into a top, which, being permanent, will be an improvement on the ordinary bone top which so readily comes away.

Dated this 4th day of November 1904.

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F. W. GOLBY,
Patent Agent,
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Agent for the Applicant.

COMPLETE SPECIFICATION.

Improvements in Gum Elastic and Flexible Catheters and Bougies.

30 I, MARCUS ALLEN, of 134 Islington, Liverpool, in the County of Lancaster, Medical Man (retired); do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement:

It is a matter of common knowledge to members of the medical profession
35 that gum elastic and flexible catheters and bougies are liable, when in use, to

[Price 8d.]

Improvements in Gum Elastic and Flexible Catheters and Bougies.

break off at the end, and that the part which thus becomes separated is likely to form the nucleus of a calculus or stone in the bladder, possibly requiring the operation of lithotomy.

The object of this invention is to produce a gum elastic or a flexible instrument which may be left without any risk in the patient's urethra, and which will be more durable than the ordinary gum elastic or the flexible instrument, while possessing the safety from breakage of the metal instrument. 5

According to this invention the catheter or bougie is made of gum elastic or of flexible material with a metallic or other suitable core. The material used is moulded or otherwise formed or fashioned around or upon the core, which is preferably made of metal wire with a bulb or projection at one end or at both ends. The instruments may thus be reversible in character, and the ends may vary in shape and in size. 10

In both gum elastic and flexible instruments, if only one end of the instrument is used the metal at the other end may be fashioned into a top, which, being permanent, will be an improvement on the ordinary bone top which so readily comes away. 15

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is;— 20

1. A catheter made of gum elastic or other flexible material formed around or upon a metallic or other suitable core, substantially as described.
2. A bougie made of gum elastic or other flexible material formed around or upon a metallic or other suitable core, substantially as described.

Dated this 3rd day of July 1905. 25

F. W. GOLBY,
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Agent for the Applicant.

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